## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claims 1-19 (Cancelled)

- 20.(Currently amended) An isolated antibody against a protein selected from the group consisting of:
- (i) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity; and
- (ii) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence complementary to nucleotides 110-802 of SEQ ID NO: 1 under stringent conditions, and having the same serine protease activity as that of the protein (i);
- [[(iii)]] (ii) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]]
- (iv) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 132 to 824 SEQ ID NO: 3 under stringent conditions, and having the same serine protease activity as that of the protein (iii); and
  - (v) a modified derivative of proteins (i) to (iv).
- 21.(Original) The antibody according to claim 20, which is a polyclonal antibody, a monoclonal antibody, or a peptide antibody.

- 22. (Currently amended) A process for producing a monoclonal antibody against a protein selected from the group consisting of:
- (i) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity; and
- (ii) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 110-802 of SEQ ID NO: 1 under stringent conditions, and having the same serine protease activity as that of the protein (i);
- [[(iii)]] (ii) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]] ,
- (iv) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 132 to 824 SEQ ID NO: 3 under stringent conditions, and having the same serine protease activity as that of the protein (iii); and
  - (v) a modified derivative of proteins (i) to (iv),
    which comprises:

administering the protein according to claim 35 (i) or (ii) or a fragment thereof to a warm-blooded animal other than a human being;

collecting spleen or lymph node of said warm-blooded animal;

fusing the antibody producing cells contained therein with myeloma cells to prepare a monoclonal antibody producing hybridoma.

- 23. (Currently amended) A method for determining a presence or an amount of a protein selected from the group consisting of:
- (i) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity; and
- (ii) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 110 802 of SEQ ID NO: 1 under stringent conditions, and having the same serine protease activity as that of the protein (i);
- [[(iii)]] (ii) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]],
- (iv) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 132 to 824 SEQ ID NO: 3 under stringent conditions, and having the same serine protease activity as that of the protein (iii); and
- (v) a modified derivative of proteins (i) to (iv), in a specimen wherein said method comprises immunologically binding an antibody against the protein or a fragment thereof in a sample and determining the presence or amount of the protein or fragment thereof.
- 24. (Currently amended) A method for determining a presence or an amount of hBSSP5 or a fragment thereof in a specimen which comprises reacting a monoclonal antibody or a polyclonal antibody against[[:]] a protein consisting of the amino acid sequence of

residues 1-231 of SEQ ID NO: 2, and having serine protease activity
with hBSSP5 or a fragment thereof in the specimen to detect a sandwich
complex produced

- (i) a protein comprising the amino acid sequence of residues

  1 231 of SEQ ID NO: 2, and having serine protease activity;
- (ii) a protein encoded by a nucleotide sequence whichhybridizes to a nucleotide sequence of bases 110-802 of SEQ ID NO: 1
  under stringent conditions, and having the same serine protease
  activity as that of the protein (i); or
- (iii) a modified derivative of the protein (i) or (ii) and a labeled antibody against the protein (i), (ii) or (iii) with hBSSP5 or a fragment thereof in the specimen to detect a sandwich complex produced.
- presence or an amount of hBSSP5 or a fragment thereof in a specimen which comprises reacting a monoclonal antibody or a polyclonal antibody against[[:]] a protein consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity with labeled hBSSP5 and hBSSP5 or a fragment thereof in the specimen competitively to detect an amount of hBSSP5 or a fragment thereof in the specimen the specimen based on an amount of the labeled hBSSP5 reacted with the antibody
- (i) a protein comprising the amino acid sequence of residues

  1-231 of SEQ ID NO: 2, and having serine protease activity;
- (ii) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 110 802 of SEQ ID NO: 1

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under stringent conditions, and having the same serine proteaseactivity as that of the protein (i); or

(iii) a modified derivative of the protein (i) or (ii) with labeled hBSSP5 and hBSSP5 or a fragment thereof in the specimen competitively to detect an amount of hBSSP5 or a fragment thereof in the specimen based on an amount of the labeled hBSSP5 reacted with the antibody.

26.(Previously presented) The method according to claim 23, wherein the specimen is a body fluid.

Claims 27-31 (Cancelled)

- 32. (Currently amended) A method for detecting pancreatitis which comprises measuring concentration, in blood or urine, of a protein selected from the group consisting of:
- (i) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity; and
- (ii) a protein-encoded by a nucleotide sequence whichhybridizes to a nucleotide sequence of bases 110-802 of SEQ ID-NO: 1
  under stringent conditions, and having the same serine protease
  activity as that of the protein (i);
- [[(iii)]] (ii) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]].
- (iv) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 132 to 824 SEQ ID NO: 3

under stringent conditions, and having the same serine protease activity as that of the protein (iii); and

(v) a modified derivative of proteins (i) to (iv).

- 33. (Currently amended) A composition which comprises an antibody against a protein selected from the group consisting of:
- (i) a protein having consisting of the amino acid sequence—

  composed of 231 amino acids represented by the 1<sup>st</sup> to 231<sup>st</sup> amino acids

  of residues 1-231 of SEQ ID NO: 2, and having serine protease activity;

  and
- (ii) a protein encoded by nucleotides hybridizable to nucleotides complementary to a nucleotide sequence represented by the 110<sup>th</sup> to 802<sup>nd</sup> bases of SEQ ID NO: 1 under stringent conditions, and having the same serine protease activity as that of the protein (i);

[[(iii)]] (ii) a protein having consisting of the amino acid sequence composed of 231 amino acids represented by the 1st to 231st amino acids of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]],

(iv) a protein encoded by nucleotides hybridizable to nucleotides complementary to a nucleotide sequence represented by the 132<sup>nd</sup> to 824<sup>th</sup> bases of SEQ ID NO: 3 under stringent conditions, and having the same serine protease activity as that of the protein (iii);

(v) a modified derivative of proteins (i) to (iv); and a pharmaceutically acceptable carrier.

Claim 34-37 (Cancelled)

- 38.(Previously presented) The method according to claim 24, wherein the specimen is a body fluid.
- 39.(Previously presented) The method according to claim 25, wherein the specimen is a body fluid.

Claims 40 and 41 (Cancelled)

- 42. (Currently amended) An immunohistochemical method for detecting a protein as a diagnostic marker for a certain disease, wherein the protein is selected from the group consisting of:
- (i) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 2, and having serine protease activity; and
- (ii) a protein encoded by a nucleotide sequence whichhybridizes to a nucleotide sequence of bases 110 802 of SEQ ID NO: 1
  under stringent conditions, and having the same serine protease
  activity as that of the protein (i);
- [[(iii)]] (ii) a protein comprising consisting of the amino acid sequence of residues 1-231 of SEQ ID NO: 4, and having serine protease activity[[;]],
- (iv) a protein encoded by a nucleotide sequence which hybridizes to a nucleotide sequence of bases 132 to 824 SEQ ID NO: 3 under stringent conditions, and having the same serine protease activity as that of the protein (iii); and
- (v) a modified derivative of proteins (i) to (iv)
  which comprises the steps of:

- a) taking a tissue specimen from a subject suspected of suffering from the disease;
  - b) contacting the antibody with the tissue specimen; and
- c) detecting the presence of the diagnostic protein maker in the tissue specimen by evaluating immunoreactivity between the antibody and said tissue specimen.

Claim 43 (Cancelled)